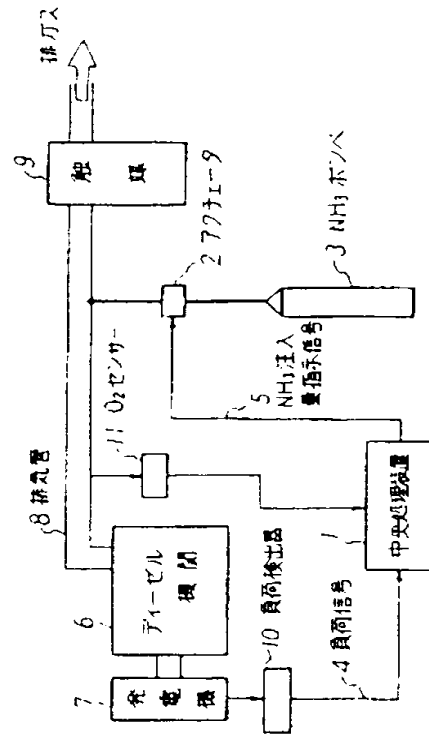


Patent Abstracts of Japan

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 TITLE : EXHAUST GAS NOX REMOVER OF DIESEL ENGINE



ABSTRACT : PURPOSE: To execute the proper denitration control with a simple and inexpensive constitution by forecasting the quantity of NOx generated with a formula used to forecast both the NOx concentration and the flow rate of exhaust gas in accordance with data such as load of a diesel engine, determining equivalent ratio and computing the quantity of NH<sub>3</sub> to be supplied.

CONSTITUTION: A detector 10 detects the load of a generator 7 connected to a diesel engine 6 and a sensor 11 detects the concentration of O<sub>2</sub> in an exhaust pipe 8. And each of detected signals 4... is sent to a central processor 1, which forecasts the quantity of NOx to be generated at the present time using the forecasting formula for determining both the NOx concentration and the exhaust gas flow rate, determines the equivalent ratio and calculates the quantity of NH<sub>3</sub> to be supplied. Then the indication signal 5 of the calculated quantity of NH<sub>3</sub> to be supplied is sent to an actuator 2, which carries NH<sub>3</sub> inside a cylinder 3 into the exhaust pipe 2. In accordance with the load of the diesel engine 6 as a parameter, proper quantity of NH<sub>3</sub> is fed so that the proper denitration can be placed under the simple and inexpensive control.

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